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## (WO/2002/097406) USE OF OPTICAL DIFFRACTION ELEMENTS IN DETECTION METHODS

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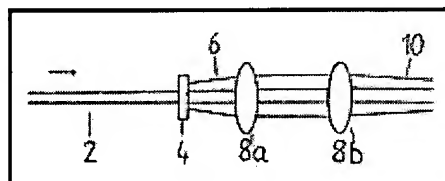
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**Title:** (EN) USE OF OPTICAL DIFFRACTION ELEMENTS IN DETECTION METHODS  
 (DE) VERWENDUNG VON OPTISCHEN DIFFRAKTIONSELEMENTEN IN NACHWEISVERFAHREN

**Abstract:** (EN) The invention relates to a method for determining luminescent molecules by means of optical stimulation in confocal measuring volumes, using a diffractive optical element. The inventive method is especially suitable for determining single molecules, e.g. by means of fluorescence correlation spectroscopy or by means of dynamic light scattering. The invention also relates to a device which is suitable for carrying out the inventive method.



(DE) Die Erfindung betrifft ein Verfahren zur Bestimmung von lumineszierenden Molekülen durch optische Anregung in konfokalen Messvolumina unter Verwendung eines diffraktiven optischen Elements. Das Verfahren eignet sich besonders zur Einzelmolekülbestimmung, z.B. durch Fluoreszenz-Korrelationsspektroskopie oder durch dynamische Lichtstreuung. Weiterhin wird eine zur Durchführung des erfindungsgemässen Verfahrens geeignete Vorrichtung offenbart.

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